

CLAIMS

1. Process for assembly of metallic parts by  
melting a filler material, characterized in that it  
5 consists of:

- heating the assembly by induction heating;
- using a powder as a filler material which has a  
melting temperature higher than or equal to the melting  
temperature of the material from which the parts to be  
10 assembled is made for parts with the same nature, and  
with a melting temperature higher than or equal to the  
melting temperature of the part with the lowest melting  
temperature, in order to make the assembly without a  
new phase being formed by diffusion with a melting  
15 temperature lower than the melting temperature of the  
parts.

2. Assembly process according to claim 1,  
characterized in that the material from which the parts  
20 are made and the material from which the powder is made  
are the same.

3. Assembly process according to claim 1,  
characterized in that the powder is compacted before it  
25 is inserted between the two metallic parts.

